Most SciComp interactions fall into one of three bins

- "user support +"
  - The SciComp liaison answers basic questions when asked and serves as an internal advocate for the project at the OLCF
  - Constant "pings" from liaisons
- "rainmakers"
  - The SciComp liaison "parachutes in" and undertakes an short, intense burst of development activity to surmount a singular application problem
  - The usual duration is less than 2 months in wallclock time and is 1 FTE-month in effort
- collaborators
  - The SciComp liaison is a member of (in several cases, one of the leaders of) the code development team
  - Liaison is a co-author on scientific papers

OLCF Support Site

U.S. DEPARTMENT OF ENERGY

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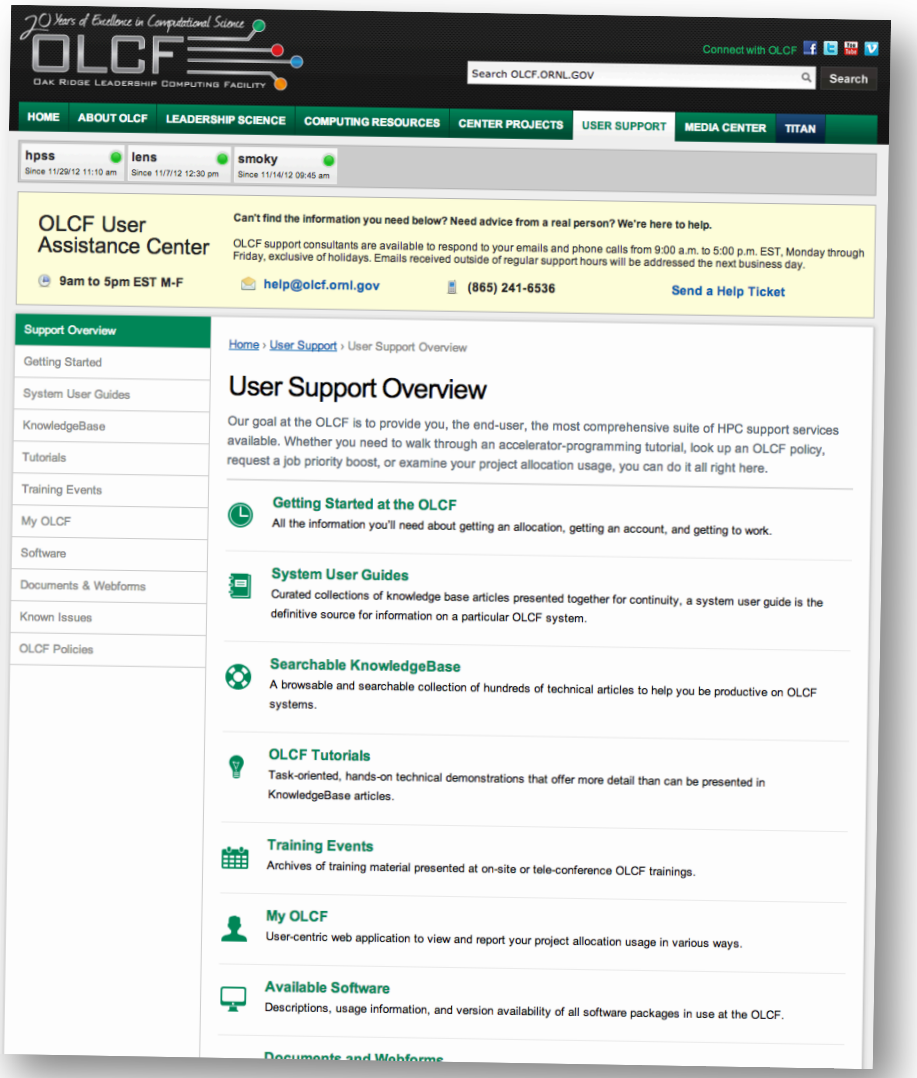
OLCF Support Site

- All support information available at:

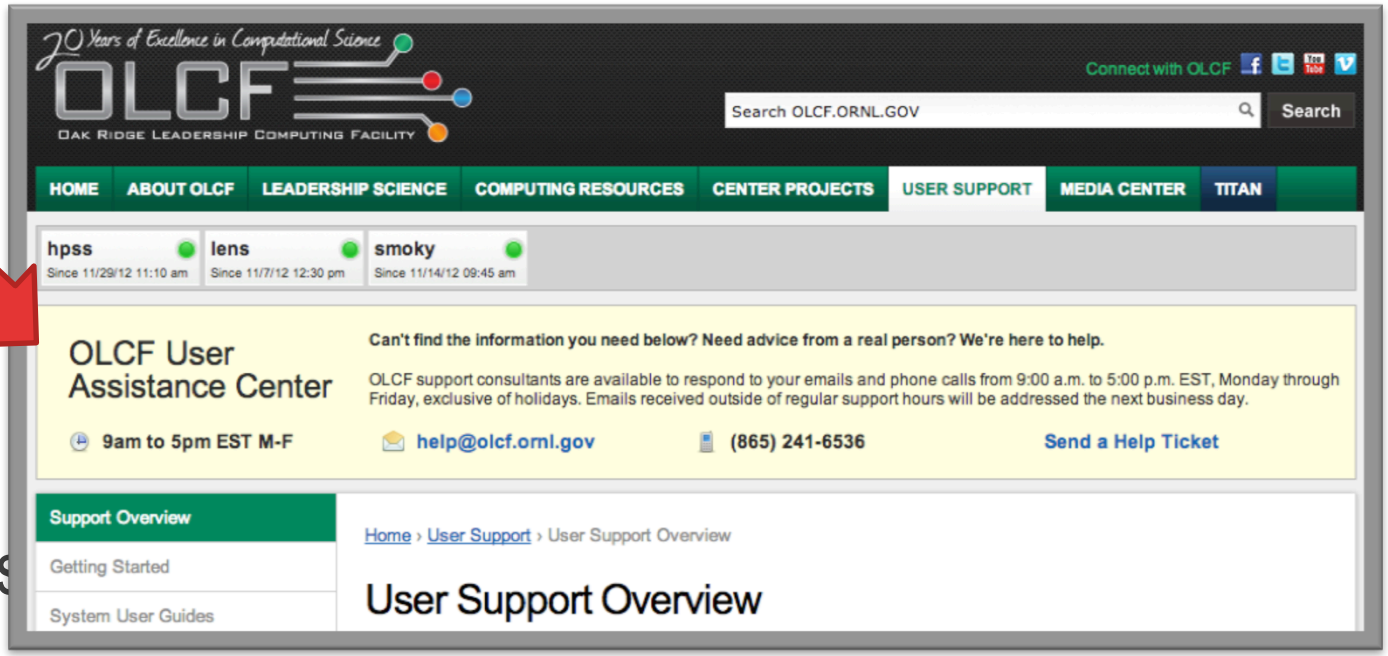
`www.olcf.ornl.gov/support/`

  - Titan user guide
  - GPU programming tutorials
  - Software inventory
  - Knowledge base
  - Known issues
  - Official policies



Support Channels

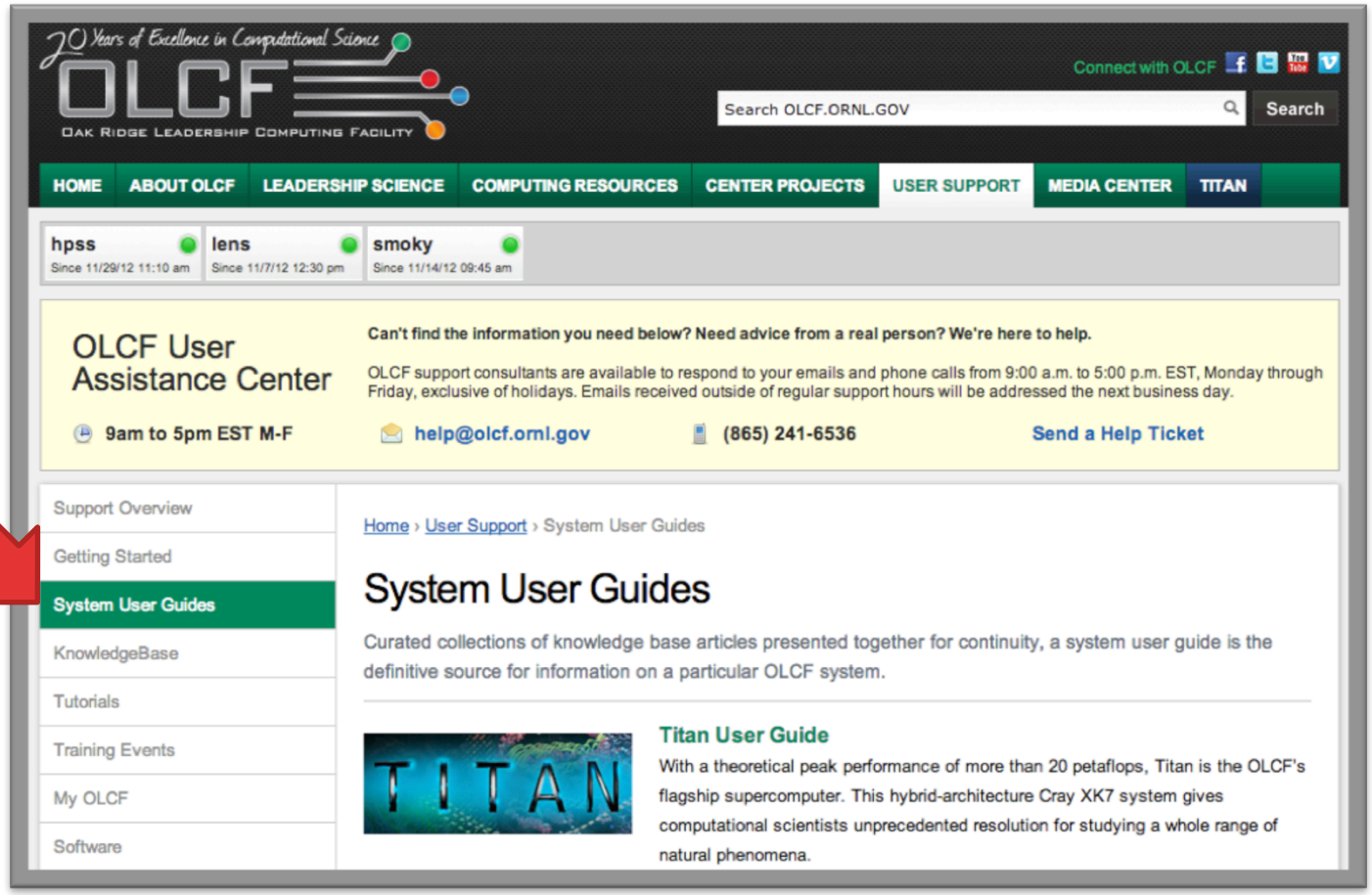
- For issues on Titan, contact OLCF support.



- For is

Titan User Guide

- Definitive source for support information on Titan

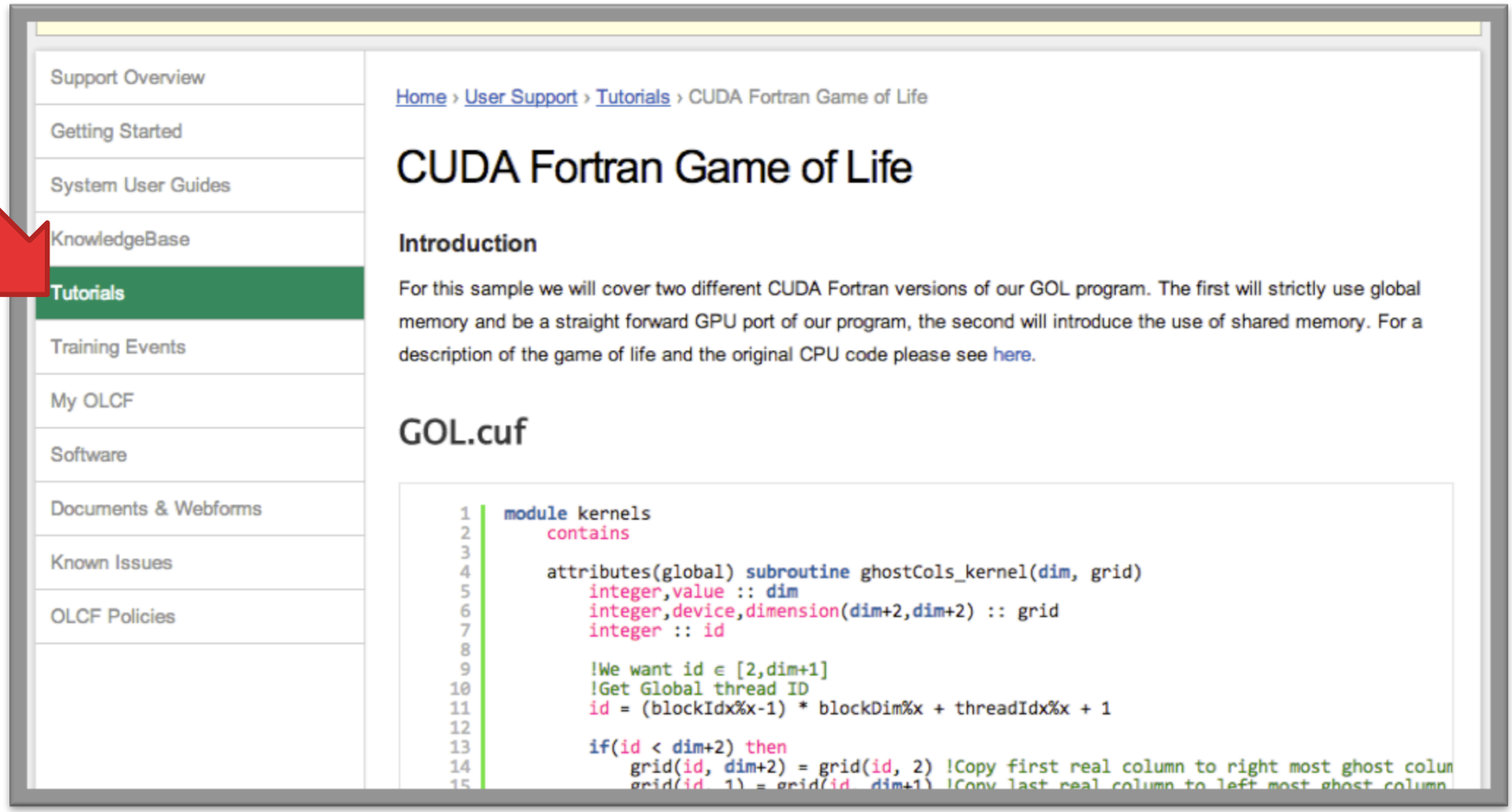


Titan User Guide

- User guide content is aggregated from searchable OLCF knowledge base.

Tutorials

Task-oriented technical demonstrations that offer more detail than can be presented in knowledge base articles.



Allocation and Usage Information

20 Years of Excellence in Computational Science

OLCF

Oak Ridge Leadership Computing Facility

1992–2012

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Job Resource Accounting on Titan

•Each Titan XK7 node will be *defined* as possessing 30 “Titan core-hours” - 16 CPU cores + 14 GPU core equivalents.

•Titan will be scheduled in full node increments; a node’s cores cannot be allocated to multiple jobs.

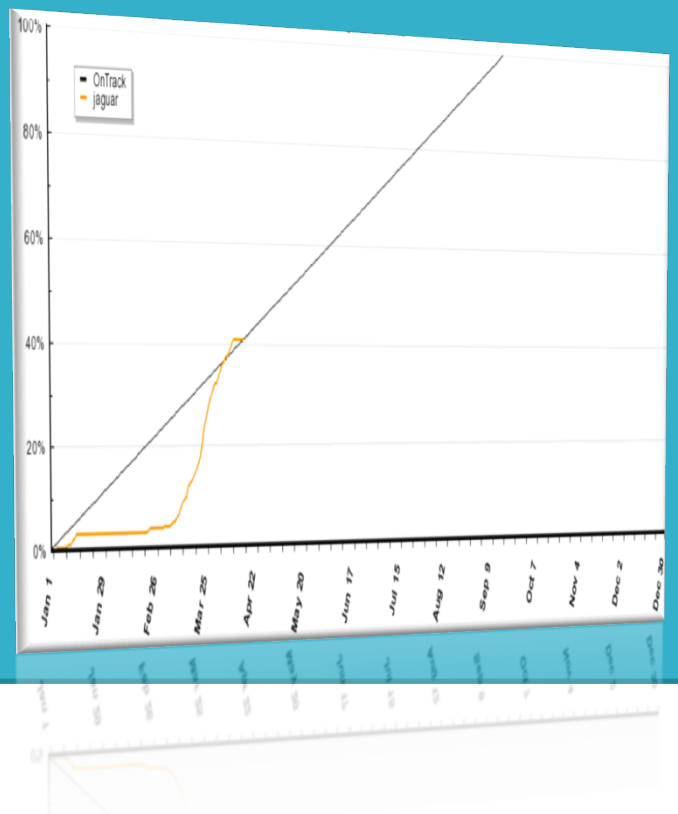
•Notably, codes that do not take advantage of GPUs will have only (16) CPU cores available per node; however, allocation requests–and units charged–will be based on (30) cores per node.

•For more information, visit http://www.olcf.ornl.gov/kb_articles/job-resource-accounting/.

Two Ways to Check Utilization

Graphical

https://users.nccs.gov



Command Line

> showusage

Can be executed from any OLCF system:

• jaguar	• dtn01
• home	• dtn02
• lens	• frost

showusage

Without arguments the utility returns usage for each project and subproject on which the user has an account.

```
> showusage

jaguar usage in CPU hours:

                                  Project Totals          userid

 Project     Allocation        Usage    Remaining        Usage

_____________________|_____________________________|_____________

 PRJ001        600001    |   26255.27    573745.73   |  155.96

 PRJ001sub     500000    |       0.00    500000.00   |    0.00

>
```

showusage

Usage:

showusage [-h] [-help]

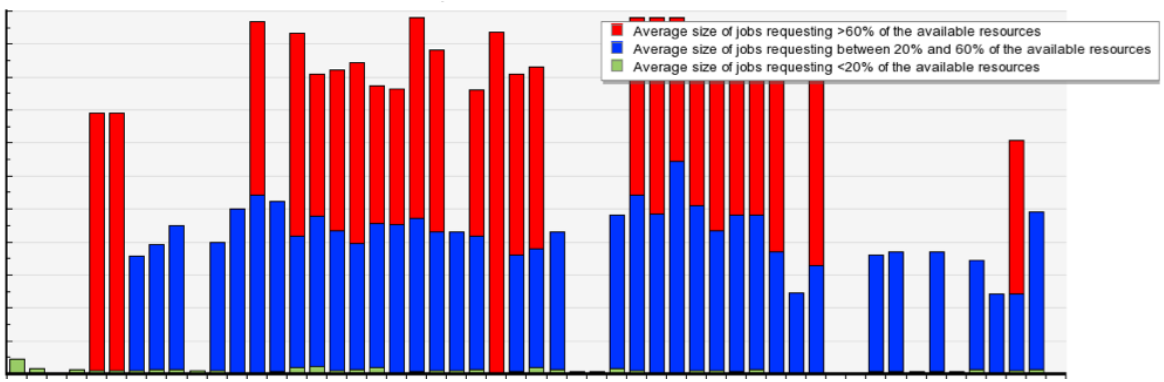
showusage [-s <*system*>] [-p <*projectid*>] [-f]

Options:

-h, -help	showusage options
-s <*system*>	display usage for specified system
-p <*projectid*>	display usage for specified project
-f	list usage for all project members

Users Web Site

- users.nccs.gov
- Updated daily
- Access to the site is limited to current OLCF users with a valid SecurID fob



- Provides the following information by Project, Subproject, and System:

	Alloc Usage	Remaining Allocation	Usage by User	Usage by Job Size	User Usage by Job Size	Batch Priority	Enabled Users
Monthly	✔	✔	✔	✔	✔		
YTD	✔	✔	✔	✔	✔	✔	✔

OLCF Communications

U.S. DEPARTMENT OF ENERGY

OAK RIDGE NATIONAL LABORATORY

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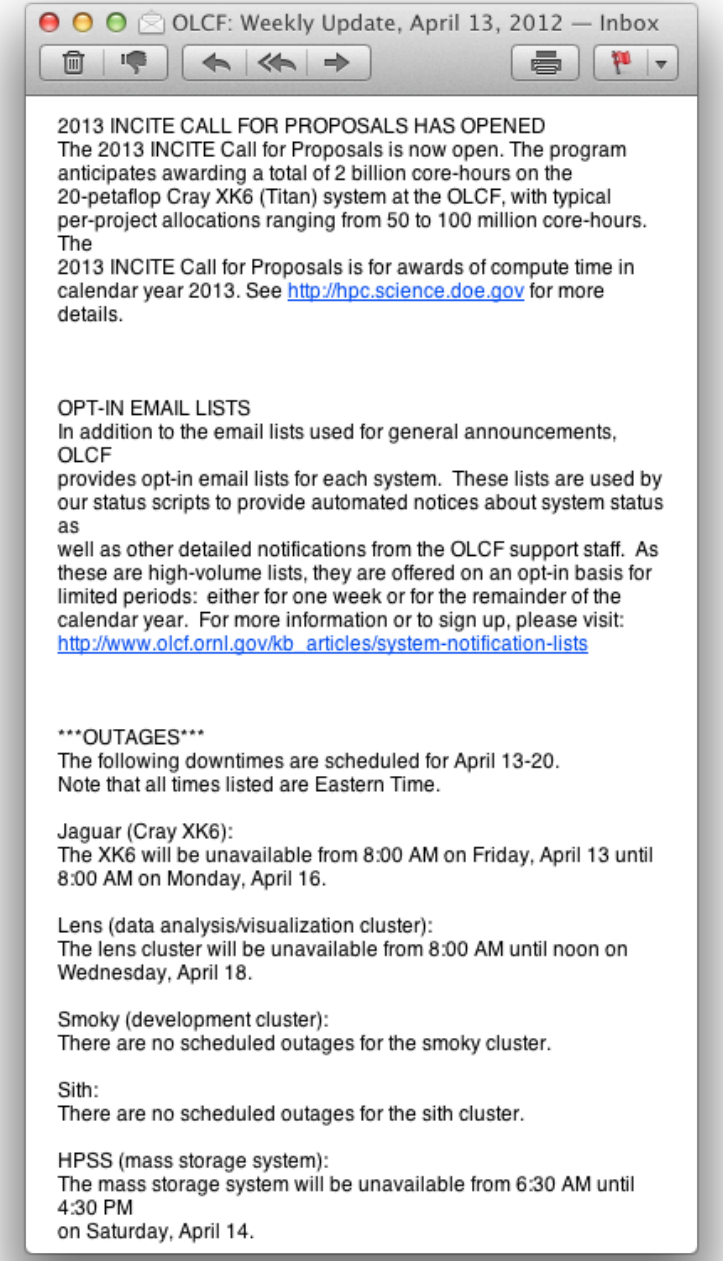
OLCF Weekly Updates

- Email Announcement every Friday
- List of scheduled system outages
- Important user information



OLCF: Weekly Update, April 13, 2012 — Inbox

2013 INCITE CALL FOR PROPOSALS HAS OPENED
The 2013 INCITE Call for Proposals is now open. The program anticipates awarding a total of 2 billion core-hours on the 20-petaflop Cray XK6 (Titan) system at the OLCF, with typical per-project allocations ranging from 50 to 100 million core-hours. The
2013 INCITE Call for Proposals is for awards of compute time in calendar year 2013. See http://hpc.science.doe.gov for more details.

OPT-IN EMAIL LISTS
In addition to the email lists used for general announcements, OLCF
provides opt-in email lists for each system. These lists are used by our status scripts to provide automated notices about system status as
well as other detailed notifications from the OLCF support staff. As these are high-volume lists, they are offered on an opt-in basis for limited periods: either for one week or for the remainder of the calendar year. For more information or to sign up, please visit:
http://www.olcf.ornl.gov/kb_articles/system-notification-lists

OUTAGES
The following downtimes are scheduled for April 13-20.
Note that all times listed are Eastern Time.

Jaguar (Cray XK6):
The XK6 will be unavailable from 8:00 AM on Friday, April 13 until 8:00 AM on Monday, April 16.

Lens (data analysis/visualization cluster):
The lens cluster will be unavailable from 8:00 AM until noon on Wednesday, April 18.

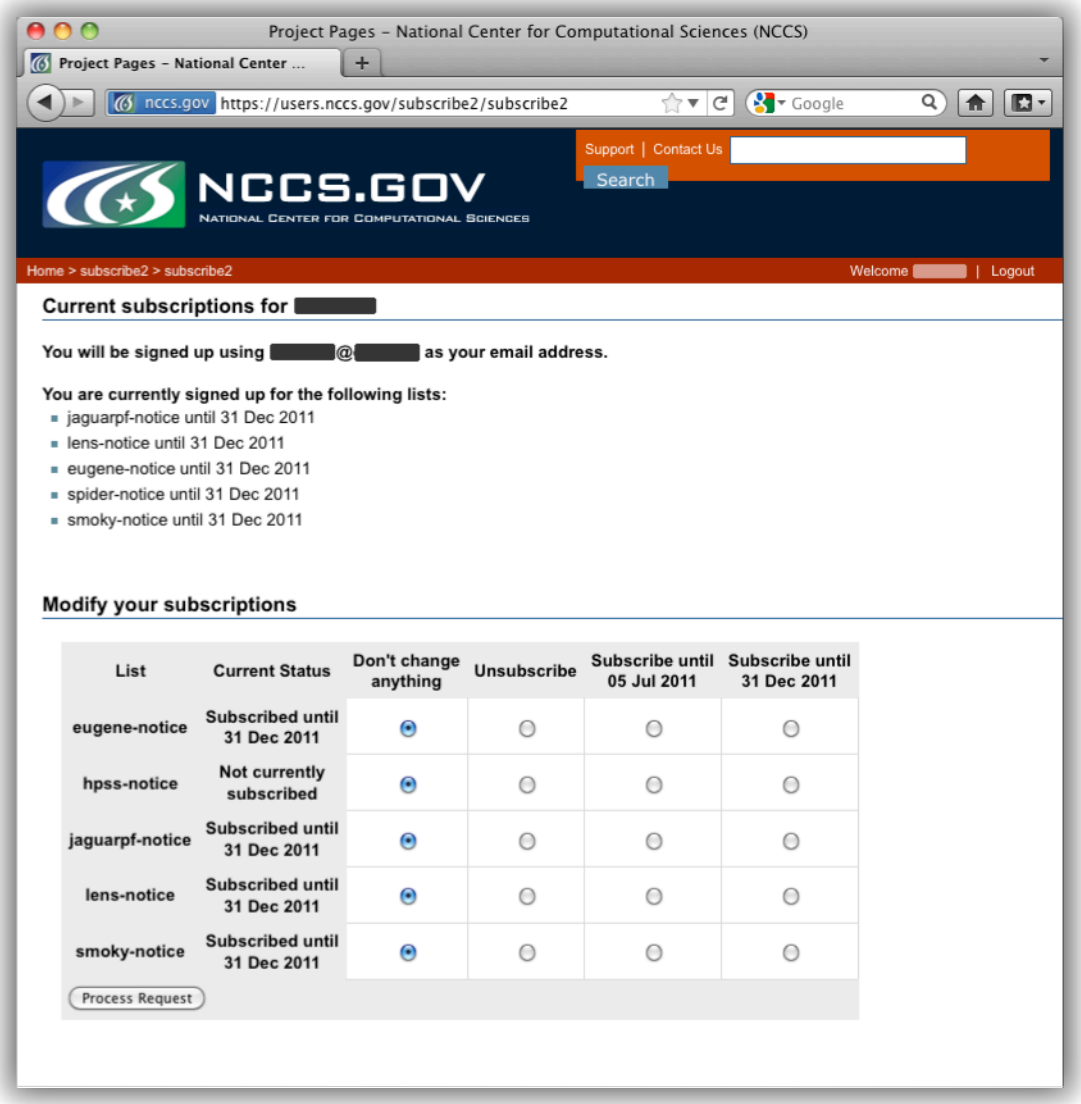
Smoky (development cluster):
There are no scheduled outages for the smoky cluster.

Sith:
There are no scheduled outages for the sith cluster.

HPSS (mass storage system):
The mass storage system will be unavailable from 6:30 AM until 4:30 PM
on Saturday, April 14.

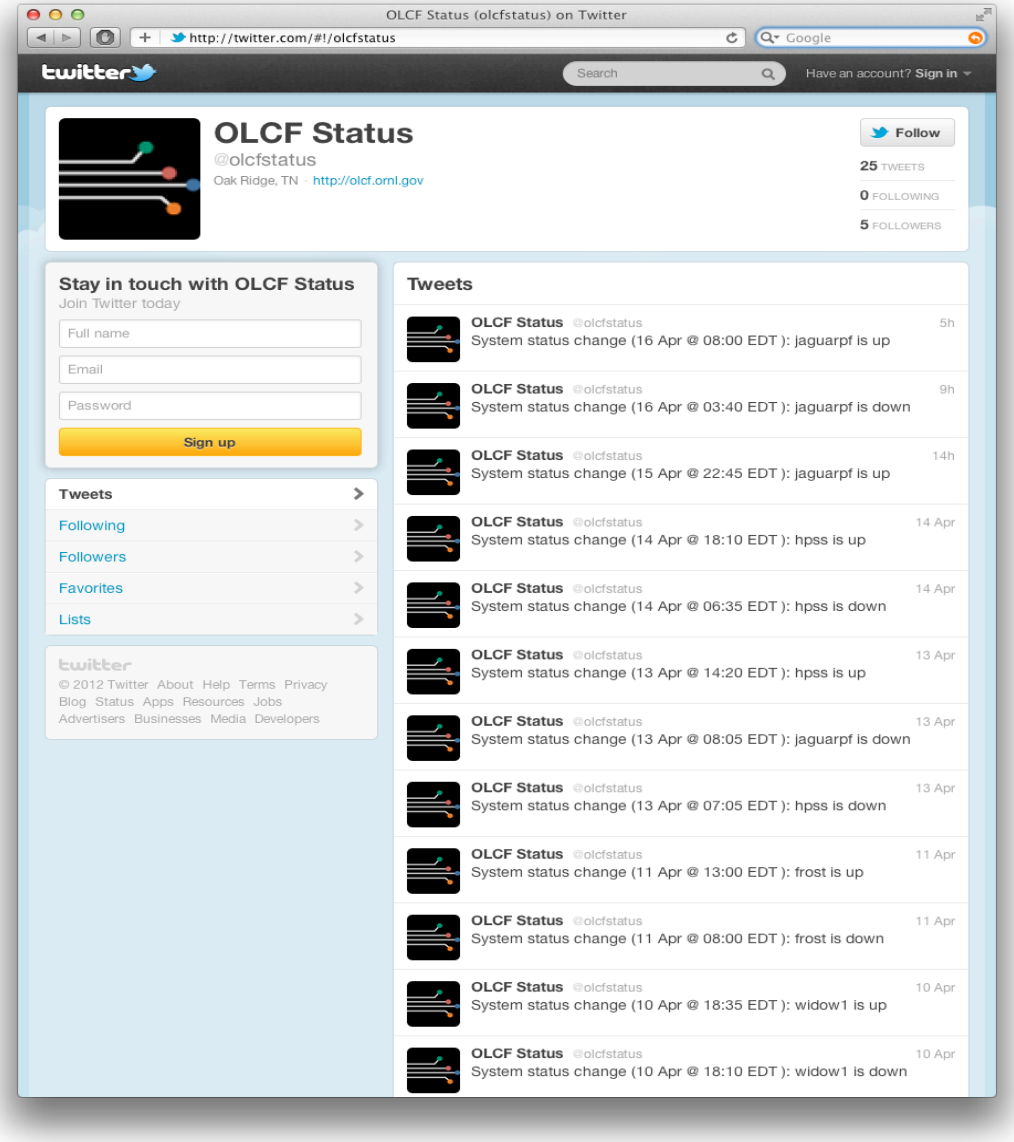
Email Lists

http://users.nccs.gov/subscribe



Twitter

@OLCFstatus



Smart Phone Apps

- Apple iOS and Google Android
- Customizable interface
- Push notifications
- Available in Apple app store and soon Google Play Store.

Questions & Discussion